

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P485146

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2STD-20-120-EDD-90**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P485146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-A125-LD4-2STD-20-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

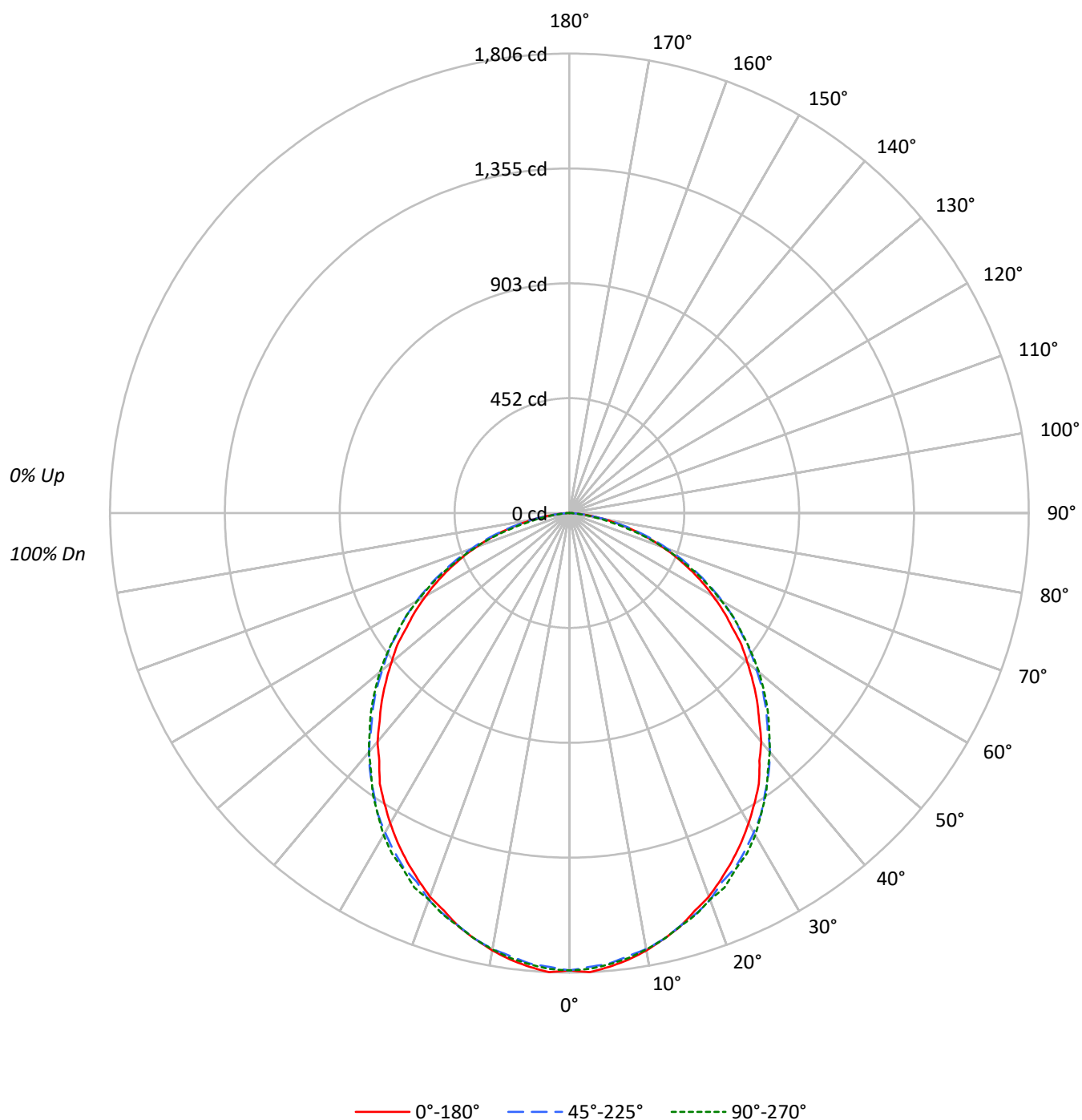
Lumens per Lamp: N/A
Luminaire Lumens: 4616.8 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4837	4837	4837
5°	4837	4802	4810
10°	4769	4753	4758
15°	4687	4682	4685
20°	4593	4632	4629
25°	4485	4572	4587
30°	4376	4504	4541
35°	4268	4407	4426
40°	4122	4308	4305
45°	3972	4159	4200
50°	3822	4019	4073
55°	3661	3878	3901
60°	3507	3739	3713
65°	3323	3510	3442
70°	3062	3224	3077
75°	2707	2820	2462
80°	2177	2208	1720
85°	1426	1365	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	3.7
10°-20°	475.1	10.3
20°-30°	707.3	15.3
30°-40°	832.5	18.0
40°-50°	834.7	18.1
50°-60°	732.0	15.9
60°-70°	535.2	11.6
70°-80°	275.8	6.0
80°-90°	55.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1351.3	29.3
0°-40°	2183.8	47.3
0°-60°	3750.4	81.2
0°-90°	4616.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4616.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1790	1779	1778	1790	1781	169
15°	1682	1685	1680	1691	1682	473
25°	1510	1517	1540	1562	1545	696
35°	1299	1305	1341	1356	1347	809
45°	1044	1049	1093	1107	1104	804
55°	780	798	826	838	831	700
65°	522	534	551	549	540	516
75°	260	262	271	253	237	276
85°	46	45	44	35	32	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1797.4	1797.4	1797.4	1797.4	1797.4
2.5°	1806.3	1797.4	1785.6	1795.5	1793.5
5°	1790.5	1778.8	1777.8	1789.6	1780.7
7.5°	1770.9	1768.9	1757.1	1769.9	1765.0
10°	1745.3	1743.4	1739.4	1748.3	1741.4
12.5°	1714.9	1712.9	1714.9	1719.8	1714.9
15°	1682.4	1685.4	1680.5	1691.3	1681.5
17.5°	1639.2	1642.2	1652.0	1655.9	1654.9
20°	1603.8	1605.8	1617.6	1633.3	1616.6
22.5°	1557.6	1562.5	1568.4	1596.9	1593.0
25°	1510.5	1517.3	1539.9	1561.6	1544.9
27.5°	1461.3	1468.2	1495.7	1511.4	1509.5
30°	1408.3	1415.1	1449.5	1471.2	1461.3
32.5°	1353.2	1365.0	1402.4	1421.0	1402.4
35°	1299.2	1305.1	1341.4	1356.2	1347.3
37.5°	1227.4	1250.0	1286.4	1296.2	1280.5
40°	1173.4	1174.4	1226.5	1226.5	1225.5
42.5°	1103.6	1119.3	1153.7	1172.4	1162.6
45°	1043.7	1048.6	1092.8	1106.6	1103.6
47.5°	977.8	997.5	1029.9	1045.6	1037.8
50°	913.0	926.7	960.1	980.8	972.9
52.5°	853.0	863.8	898.2	910.0	902.2
55°	780.3	798.0	826.5	838.3	831.4
57.5°	717.4	730.2	765.6	769.5	765.6
60°	651.6	666.3	694.8	697.7	689.9
62.5°	588.7	598.5	624.0	625.0	616.2
65°	521.8	533.6	551.3	549.3	540.5
67.5°	456.0	463.9	480.6	473.7	463.9
70°	389.2	396.0	409.8	400.0	391.1
72.5°	324.3	329.2	341.0	326.3	315.5
75°	260.4	262.4	271.2	252.6	236.8
77.5°	197.5	199.5	204.4	185.7	168.0
80°	140.5	140.5	142.5	122.8	111.0
82.5°	88.4	88.4	87.5	72.7	65.8
85°	46.2	45.2	44.2	35.4	32.4
87.5°	16.7	16.7	13.8	12.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)